

32692

Customer Number



Patent

Case No.: 56211US008

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: JING, NAIYONG

Application No.: 10/826182

Group Art Unit: 1773

Filed: April 16, 2004

Examiner: Unknown

Title: FLUOROPOLYMER BONDING

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

July 27 2004  
Date

*Carol Decaire*  
Signed by: Carol Decaire

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing only Foreign Patent Documents and Other Documents as references to be submitted for consideration by the Examiner. The U.S. Patent Documents cited in this application have been submitted through an e-IDS of even date herewith. Copies of the cited foreign patents and non-patent literature are enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

July 27 2004  
Date

By: *Brian E. Szymanski*  
Brian E. Szymanski, Reg. No.: 39,523  
Telephone No.: (651) 737-9138

Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 1 of 3

Application Number

10/826182

Filing Date

April 16, 2004

First Named Inventor

Jing, Naiyong

Art Unit

1773

Examiner Name

Attorney Case Number

56211US008

## Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (If known)				
	B1	EP	0 867 785 A2	09/30/1998			
	B2	JP	03 093874A	04/18/1991			Abstract only
	B3	JP	06-279590	10/04/1994			Abstract only
	B4	JP	70-96575	04/11/1995			Abstract only
	B5	JP	07-179628	07/18/1995			Abstract only
	B6	JP	07-179636	07/18/1995			Abstract only
	B7	JP	09-193164	07/29/1997			Abstract only
	B8	JP	2000-256488	09/19/2000			Abstract only
	B9	PCT	WO 96/05965 A1	02/29/1996			

## OTHER DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	<u>Appl. Phys. Lett.</u> , Vol. 54, No. 1, January 2, 1989, ©1988 American Institute of Physics, "Ablation of Polytetrafluoroethylene (Teflon) with Femtosecond UV Excimer Laser Pulses", S. Küper and M. Stuke, p. 4-6	
	C2	<u>Appl. Phys. Lett.</u> , Vol 63, No. 25, December 20, 1993, "Surface Modification and Metallization of Fluorocarbon Polymers by Excimer Laser Processing", H. Niino and A. Yabe	
	C3	DATABASE WPI, Week 8411, Derwent Publications, Ltd., London, GB: AN 1984-066964, XP002209025 & Research Disclosure, NR. 238006, Kenneth Mason Publications, Vol. 238, No. 006, 1984, Hampshire, UK	
	C4	<u>Chemistry Letters</u> , pp. 1637-1638, 1993; ©The Chemical Society of Japan, "Endowment With The Wettability On The Surface of Tetrafluoroethylene-Perfluoroalkyl Vinyl Ether Copolymer By Excimer Laser Irradiation"; Atsushi Okada, Yasuo Negishi, Yuichi Shimizu, Shun'ichi Sugimoto, Masanobu Nishii, and Shunichi Kawanishi	

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 3	<b>Application Number</b>	10/826182
	<b>Filing Date</b>	April 16, 2004
	<b>First Named Inventor</b>	Jing, Naiyong
	<b>Art Unit</b>	1773
	<b>Examiner Name</b>	
	<b>Attorney Case Number</b>	56211US008

OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C5	Elsevier, <u>Applied Surface Science</u> 109/110(1997) p. 222-226, "Excimer Laser Induced Surface Chemical Modification of Polytetrafluoroethylene", K. Révész, B. Hopp, Z. Bor	
	C6	Brewis, D. M. in: "Surface Analysis and Pretreatment of Plastics and Metals", Applied Science Publishers, New York, 1982, p. 1-11	
	C7	Siperko, L.M.; Thomas, R.R.; <u>Journal Adhesion Sci, Technol.</u> 1989, Vol. 3, p. 157	
	C8	Rye, R.R.; Arnold, G.W.; <u>Langmuir</u> , 1989, Vol. 5, p. 1331	
	C9	Clark, D.T.; Hutton, D.R.; <u>Journal Polym.Sci., Polym. Chem. Ed.</u> , 1987, vol. 25, p. 2643	
	C10	Weismann, S.I.; <u>Journal Phys. Chem.</u> , 1954, Vol. 22, p. 1135	
	C11	Yao, T.; Musha, S.; Munemori, M.; <u>Chemistry Letters</u> , 1974, p. 939, published by the Chemical Society of Japan	
	C12	Allmer, K.; Feiring, A.E.; <u>Macromolecules</u> 1991, Vol. 24, p. 5487	
	C13	Costello, C.A.; McCarthy, T.J.; <u>Macromolecules</u> 1984, Vol. 17, p. 2941	
	C14	Iqbal, Z.; Ivory, D.M.; Szobota, J.S.; Elsenbaumer, R.L.; Baughman, R.H.; <u>Macromolecules</u> , 1986, Vol. 19, p.2992	
	C15	Kiplinger, J.L.; Richmond, T.G.; Osterberg, C.E.; <u>Chemical Reviews</u> , 1994, Vol. 94, p.341	
	C16	MacNicol, D.D.; Robertson, C.D.; <u>Nature</u> , March 3, 1988, Vol. 332, p. 59, "New and unexpected reactivity of saturated fluorocarbons"	
	C17	Cooper, D.L.; Allan, N.L.; Powell, R.L.; <u>Journal of Fluorine Chemistry</u> , 1990, Vol. 49, p.421, "Theoretical Studies of Fluorocarbons"	
	C18	Marsella, J.A.; Gilicinski, A.G.; Coughlin, A.M.; Pez, G.P.; <u>Journal Organic Chemistry</u> , 1992, Vol. 57, p. 2856, "Selective Reduction of Saturated Perfluorocarbons"	
	C19	Burdeniuc, J.; Chupka, W.; Crabtree, R.H.; <u>Journal Am. Chem. Soc.</u> , 1995, Vol. 117, p. 10119, "New Reaction of Saturated Fluorocarbons:Partial Reduction by NH <sub>3</sub> with Hg Photosensitization"	

<b>*Examiner:</b>	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 3 of 3	<b>Application Number</b>	10/826182
	<b>Filing Date</b>	April 16, 2004
	<b>First Named Inventor</b>	Jing, Naiyong
	<b>Art Unit</b>	1773
	<b>Examiner Name</b>	
	<b>Attorney Case Number</b>	56211US008

OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C20	Burdeniuc, J.; Crabtree, R.H.; <u>Science</u> , January 19, 1996, Vol. 271, p. 340, "Mineralization of Chlorofluorocarbons and Aromatization of saturated Fluorocarbons by a Convenient Thermal Process"	
	C21	Kaprinidis, N.A.; Turro, N.J.; <u>Tetrahedron Letters</u> , 1996, Vol. 37, p. 2373, "Photosensitized Defluorination of Saturated Perfluorocarbons"	
	C22	Plueddemann, E.P.; <u>Silane Coupling Agents</u> , 1982, Plenum Press, NY, pp. 188-205	
	C23	Plueddemann, E.P.; <u>Silane Coupling Agents</u> , Second Edition, 1991, Plenum Press, NY, pp. 101-113	
	C24	<u>Chemlok® 607</u> , "Silicone Rubber & Specialty Elastomer Adhesive", Lord Corporation, 2000	
	C25	<u>Semiconductor International</u> , 11, Burggraaf, Pieter, No. 8, p. 55 (July, 1988)	

<b>*Examiner:</b>	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	